

RECEIVER USED IN MARKER LOCALIZATION SENSING SYSTEM AND  
HAVING DITHERING IN EXCITATION PULSES

ABSTRACT OF THE DISCLOSURE

A receiver for determining the location of a marker that is excited with an exciting waveform. A sensing array having coils is used to sense magnetic flux from the resonating marker. The coils provide inputs to the receiver. The receiver includes a correlation processor for analyzing the inputs in a coherent manner. Further, the exciting waveform is repeated with random dithering in order to eliminate system noise.